APPENDIX A EXISTING WASTE ROCK ANALYTICAL RESULTS

)EP METEORIC WATER MOBILITY TEST ABORATORY NUMBER G066-07L NVOICE NUMBER G0214L ATE March 27, 1992 'age 2 of 3 'ample I.D.: Waste Rock Characterization W-3

'EST PROCEDURE

aterial, all passing 2 inches identified by the client as Waste Rock W-3 arch '92 was air dried and split to obtain a test sample of 5,116.6 grams. he sample was placed in an 8 inch column for extraction by an artificial ixiviant of pH 6.12 made from reagent grade water and nitric acid. A olution application rate of .48 liters per hour was used to circulate 11,580 illiliters of the lixiviant through the material. Solution recovery at 24 ours was 96.4% with a saturation volume of 210 ml's. The recovered olution was preserved for testing as required for each type of analysis to e conducted.

separate split of the test material was wet screened to obtain the ercentage of material passing a 200 mesh U.S. standard screen. Test results re tabulated as follows:

mple: Waste Rock Charaterization W-3
st Sample Weight: 5,116.6 grams
plution Volume applied: 11,580 milliliters
nitial pH: 6.12 Lixiviant
inal pH: 5.87 Effluent
ach Time: 24 hours Leach Method: Column
aturation Volume: 210 milliliters
preent material passing 200 mesh: 8.92%

METHOD

<pre>lkalinity: Bicarbonate Total</pre>	17	mg/l mg/l	EPA 310.0
ılfate:	908	mg/l	EPA 375.4
ıloride:	13.75	mg/l	EPA 325.3
trate:	4.55*	mg/l	EPA 350.3
uoride:	2.50*	mg/l	EPA 340.2
A.D. Cyanide:	1,522	mg/l	EPA 160.2
	N/A	mg/l	ASTM D2036-89

* Indicates analytical constituent analyzed by another laboratory.

DEP METEORIC WATER MOBILITY TEST LABORATORY NUMBER G066-07L INVOICE NUMBER G0214L DATE March 27, 1992

Page 3 of 3
Sample I.D.: Waste Rock Characterization W-3

AMENDED PAGE

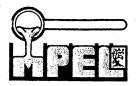
		32 ELEMENT	ANALYSIS		
	Sample 1	I.D.: Waste Roc	k Characteriz	zation W-3	
Element	ppm	Element	ppm	Element	ррm
Aluminum	0.069	Gallium	-0.050	Scandium	-0.050
Antimony	-0.050*	Iron	0.143	Selenium	-0.005
Arsenic	-0.05*	Lead	-0.025	Silver	-0.05*
Barium	0.099	Lithium	0.24	Sodium	14.36
eryllium	0.004	Magnesium	31.65	Strontium	1.171
Bismuth	-0.025	Manganese	1.095	Thallium	-0.040
Cadmium	-0.005	Mercury	0.00294*	Tin	-0.080
Calcium	246*	Molybdenum	0.010	Titanium	0.038
Chromium	0.109	Nickel	0.085	Vanađium	0.008
Cobalt	0.123	Phosphorus	-0.100	Zinc	0.607
Copper	19.41	Potassium	7.400		

EPA METHOD: 200 SERIES *Indicates analytical constituent analyzed by another laboratory.

MPEL 1855 DEMING WAY . SPARKS NEVADA 89431 . TELEPHONE(702) 331-3600

spectfully Submitted

ryne M. Colwell meral Manager



MINERALS PROCESSING AND ENVIRONMENTAL LABORATORIES, INC.

STATIC TEST

FOR

Arimetco, Inc./Copper Tek Corporation 102 Burch Drive Yerington, NV 89447

ATTN: Bill Sifford

Laboratory Number G066-07A Invoice Number G0214A

February 4, 1993

FINAL REPORT

Static Test Laboratory Number G066-07A Invoice Number G0214A Date February 4, 1993 Page 2 of 2

FINAL REPORT

Sample I.D.: Waste Ro	ock Characteriza	ation W-3
	· ·	Units of Measure
Total Sulfur (as s)	0.19	ş
Pyritic Sulfur (as S)	0.05	ફ
Sulfur, Unidentified (as S)	-0.01	*
Sulfate, Sulfur (%)	0.18	*
APP/Peroxide (as S)	-0.01	ž
Total Sulfur	5.9	(Tons CaC03/Kt)
Pyritic Sulfur	1.6	(Tons CaC03/Kt)
APP/Peroxide	-0.3	(Tons CaC03/Kt)
Acid Neutralizing Potential	6.9	(Tons CaC03/Kt)

Wayne M. Colwell General Manager

MPEL 1855 DEMING WAY . SPARKS, NEVADA 89431 . TELEPHONE (702) 331-3600

Analysis: Metals Matrix: Solids

Case Number: R01S07
Site: PPER MINE, YERINGTON
SDG: 00299B, 00299C
Date: 11/07/00

N/A N/A N/A T-1 T-2 T-2			N/A	N/A	N/A			N/A		N/A			N/A	
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mg/Kg			mg/Kg	mg/Kg	mg/Kg			ıng/Kg		me/Kø			10/19/00	
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Comments refer to the corresponding section in the report narrative for each letter.

NA - Nor Applicable.

NR - Not Required.

Q Refer to data qualifiers.

U - The parameter was analyzed for, but was not detected; The associated value is the sample quantitation limit, adjusted for dilution, if any.

I - The associated value is an estimated quantity.

All results are in mg/Kg dry weight.

Analysis: Metals Matrix: Solids

ACINUADOS: K. JO. 103
AG: PPER MINE, VERINGTON
AG: 00299B, 80299C
AC: 11/0700

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celer to data qualifiers.

be parameter was analyzed for, but was not detected. The appointed valve is the sample quantitation limit, adjusted for dilutios, if any, sales are in mg/Kg day weight.